

WHAT IS CLAIMED IS:

1. A plasma display panel comprising:

a first substrate and a second substrate spaced apart from each other at a distance and proceeding substantially parallel to each other, the first substrate and the second substrate having a display area and a non-display area;

a plurality of address electrodes formed on the first substrate and covered by a dielectric layer;

main barrier ribs arranged between the substrates to form discharge cells;

phosphor layer formed within the discharge cells;

a plurality of discharge sustain electrodes formed on the surface of the second substrate facing the first substrate and covered by a dielectric layer; and

reinforcing barrier ribs arranged at the non-display area while surrounding the display area, and connected to the main barrier ribs with an outer structure curved toward the outside of the substrates.

2. The plasma display panel of claim 1 wherein the reinforcing barrier ribs surround at least one edge of the display area.

3. The plasma display panel of claim 1 wherein the reinforcing barrier ribs surround all four edges of the display area.

4. The plasma display panel of claim 1 wherein the thickness of the reinforcing barrier ribs is substantially the same as the thickness of the main barrier ribs.

5. The plasma display panel of claim 1 wherein the reinforcing

barrier ribs have a width gradually reduced from the center thereof to both end portions thereof.

6. The plasma display panel of claim 1 wherein the reinforcing barrier ribs are outlined with an arc.


5 7. The plasma display panel of claim 1 wherein the reinforcing barrier ribs are outlined with a plurality of arcs.

8. The plasma display panel of claim 7 wherein the arc portions of the reinforcing barrier ribs are differentiated in the thickness thereof.

10 9. The plasma display panel of claim 8 wherein the arc portion of the reinforcing barrier rib with the small thickness is thinner than the thickness of the main barrier rib.

10. The plasma display panel of claim 7 wherein the respective arc portions of the reinforcing barrier ribs correspond to a discharge cell formed by the main barrier ribs.

15 11. The plasma display panel of claim 7 wherein the respective arc portions of the reinforcing barrier ribs correspond to two or more discharge cells formed by the main barrier ribs.

12. A plasma display panel comprising: 
a first substrate and a second substrate facing each other;
20 address electrodes formed on the first substrate;
main barrier ribs arranged between the first substrate and the second substrate within a display area to form discharge cells;
phosphor layer formed at the respective discharge cells;
a plurality of discharge sustain electrodes formed on the second

substrate; and

dummy barrier ribs arranged at a non-display region sided with at least one end portion of the display area;

wherein the dummy barrier ribs comprise main dummy barrier ribs spaced apart from the end portions of the main barrier ribs at a distance while proceeding in a direction of the display area, and interconnection dummy barrier ribs extended from the main dummy barrier ribs toward the main barrier ribs with a curvature and connected to the main barrier ribs.

13. The plasma display panel of claim 12 wherein the dummy barrier ribs are arranged at non-display regions sided with two opposite-end portions of the display area facing each other, and the main dummy barrier ribs proceed perpendicular to the address electrodes.

14. The plasma display panel of claim 13 wherein the dummy barrier ribs are arranged at non-display regions sided with two other opposite-end portions of the display area facing each other, and the main dummy barrier ribs proceed parallel to the address electrodes.

15. The plasma display panel of claim 12 wherein the main dummy barrier ribs have a plurality of arc portions serially connected to each other.

16. The plasma display panel of claim 15 wherein the arc portions are convex toward the outside of the substrates.

17. The plasma display panel of claim 15 wherein the arc portions have substantially the same curvature as the interconnection dummy barrier ribs.

18. The plasma display panel of claim 12 wherein the main dummy

barrier rib and the interconnection dummy barrier rib are connected to each other to form an arc portion.

19. The plasma display panel of claim 12 wherein the dummy barrier ribs further comprise subsidiary dummy barrier ribs placed at the one-sided region of the main dummy barrier ribs facing the main barrier ribs.

20. The plasma display panel of claim 19 wherein the main dummy barrier ribs have a plurality of arc portions serially connected to each other, and the subsidiary dummy barrier ribs are extended toward the main barrier ribs substantially with the same curvature as the arc portions.

21. The plasma display panel of claim 20 wherein the subsidiary dummy barrier ribs are arranged between the two interconnection dummy barrier rib neighbors pair by pair.

22. The plasma display panel of claim 12 wherein separation barrier ribs are provided between the main barrier ribs and the dummy barrier ribs.

23. The plasma display panel of claim 22 wherein the separation barrier ribs proceed substantially parallel to the main dummy barrier ribs.

24. The plasma display panel of claim 12 wherein the main barrier ribs are stripe-patterned while proceeding parallel to the address electrodes.

25. The plasma display panel of claim 12 wherein the main barrier ribs are lattice-patterned with first barrier rib portions proceeding parallel to the address electrodes, and second barrier rib portions proceeding perpendicular to the address electrodes.